

Applicants : Andrew R. Reading et al.  
Serial No. : 09/911,836  
Page : 2

Please amend the paragraph beginning on page 11, line 33, as follows:

B1

Referring now specifically to the drawings, and the illustrative embodiments depicted therein, a vehicular gas emission analyzer system 10, which is adapted to be incorporated in a vehicle 8, includes a vehicular gas emission analyzer assembly 12, an exhaust probe 14 adapted to sample emissions produced by the vehicle engine, and a line, or a conduit, 16 interconnecting exhaust probe 14 with emission analyzer assembly 12 (Figs. 1 and 2). Exhaust probe 14 may be a diluting probe that dilutes the exhaust sample prior to measuring particulate content, concentration or mass of one or more exhaust component. By vehicle is meant any device that uses an internal combustion engine. In particular, vehicle 8 is illustrated as a passenger car, but could also be a van; a truck; a locomotive; a construction apparatus, such as a dozer, an excavator, a paver, a trencher, or the like; airport ground equipment; agricultural equipment; and the like. Line 16 may be heated to a temperature of 60 degrees centigrade or higher, such as for use with a gasoline engine, or 175 degrees centigrade or higher, such as for use with a diesel engine. Exhaust probe 14 may be built into the vehicle's exhaust system, but may be removable if desired. The readings of gas emission analyzer system 10 may be combined with vehicle engine parameters in order to determine, for example, grams of emission per mile, or the like, as disclosed in commonly assigned United States Patents 5,099,680 and 6,085,582, the disclosures of which are hereby incorporated herein by reference. The vehicle engine parameters may be combined with the output of the emission analyzer system in a serial data stream. However, the readings of gas emission analyzer system 10 may be used to provide information on concentration of the various exhaust gases, per se, or may be combined with information other than vehicle engine parameters. One useful parameter to combine with the output of gas emission analyzer system 10 to determine grams per mile, or mass flow, of the exhaust gases of its vehicle is fuel consumption rate of the vehicle, as disclosed in provisional patent application Serial No. 60/255,605 filed December 13, 2000, the disclosure of which is hereby incorporated herein by reference.